



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D505-1049-013**  
**Job Sheet 174373**



Part No: D505-1049-013

Job Qty: 3 ea

Part Name: Bearpaw Installation w/Wearplates



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/14/18

Job Tracking No:

Due Date: 4/13/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: Dwg D505-1049 RevB IPP REV.A NEW ISSUE JFS 17/10/31 VERIFIED BY:DD IPP Rev.B Updated Bom per dwg. RevB JFS 18/03/01 Verified by:DD

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard |      | Workcenter/Supplier   |           | Sign-off    |
|-------|--------------------|-------|------------|----------|----------|------|-----------------------|-----------|-------------|
|       |                    |       |            |          | Setup    | Run  | Workcenter / Supplier | Lead Time |             |
| 90    | Start up Operation | 3 Ea  |            | 4/13/18  | 0.00     | 0.00 | Start Up Stores/Pkg-2 |           | APR 17 2018 |
| 160   | Packaging          | 3 pcs |            | 4/13/18  | 0.00     | 0.00 | Packaging1            |           | APR 20 2018 |
| 170   | QC                 | 3 pcs |            | 4/13/18  | 0.00     | 0.00 | QC4                   |           |             |
| 175   | DC                 | 3 pcs |            | 4/13/18  | 0.00     | 0.00 | DC                    |           |             |
| 180   | Packaging          | 3 pcs |            | 4/13/18  | 0.00     | 0.00 | Packaging3            |           |             |
| 190   | QC21-FG            | 3 Ea  |            | 4/13/18  | 0.00     | 0.00 | QC21                  |           | APR 23 2018 |

Part Op 175 - Photocopy bluefile and create labels per PPP D505-1049-013 CHG001  
Descriptions: 180 - Identify and pack for shipping as per PPP d505-1049-013 LOCATION:

F9015

### Job BOM

| Part / Item   | Component Name     | Quantity      | Operation             | Container   |
|---------------|--------------------|---------------|-----------------------|-------------|
| AN4-7A        | Bolt               | 24 Ea (8 ea)  | 90-Start up Operation | 74137820-80 |
| D2274         | Radius Block       | 24 Ea (8 ea)  | 90-Start up Operation | 5054501     |
| D2529         | Washer             | 48 Ea (16 ea) | 90-Start up Operation | 5019348     |
| D5559-041     | Wearplate Assembly | 6 Ea (2 ea)   | 90-Start up Operation | 5052439     |
| D5560-1       | Bearpaw            | 6 Ea (2 ea)   | 90-Start up Operation | 5051483     |
| D5566-1       | Clamp              | 12 Ea (4 ea)  | 90-Start up Operation | 5059889     |
| D5567-1       | Cushion            | 12 Ea (4 ea)  | 90-Start up Operation | 5060110     |
| MS21042L4     | Nut                | 48 Ea (16 ea) | 90-Start up Operation | 5045901     |
| MS21083N4     | Nut                | 24 Ea (8 ea)  | 90-Start up Operation | 5041747x8   |
| NAS1149D0463J | Washer             | 24 Ea (8 ea)  | 90-Start up Operation | 5045845     |
| NAS1801-4-30  | Bolt               | 24 pcs (8 ea) | 90-Start up Operation | 5021412x10  |
| QS200-M40S    | Clamp              | 6 pcs (2 ea)  | 90-Start up Operation | 3058465     |

### Job Allocations

| Operation             | Component Part | Required | Inventory | Allocated |
|-----------------------|----------------|----------|-----------|-----------|
| 90-Start up Operation | AN4-7A         | 24       | 76        | 0         |
|                       | D2274          | 24       | 36        | 0         |
|                       | D2529          | 48       | 2,766     | 0         |
|                       | D5559-041      | 6        | 1         | 0         |
|                       | D5560-1        | 6        | 1         | 0         |
|                       | D5566-1        | 12       | 1         | 0         |
|                       | D5567-1        | 12       | 2         | 0         |
|                       | MS21042L4      | 48       | 3,314     | 0         |

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                         | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube <input type="checkbox"/></td> <td style="width:15%;">Cross tube <input type="checkbox"/></td> <td style="width:15%;">Water Jet <input type="checkbox"/></td> <td style="width:15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                             |                                 |                                   | Skid-tube <input type="checkbox"/> | Cross tube <input type="checkbox"/>   | Water Jet <input type="checkbox"/>     | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/>    | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/>         | Thermoforming <input type="checkbox"/>      | Finishing <input type="checkbox"/>        | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>   | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/>           | Supplier <input type="checkbox"/>   |                                              |                                           |                                                |                                        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
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| <b>Description V</b><br><br><div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>4/20/2018 [Dart Hawkesbury] Prod...</p> <p>Comments :</p> <p>Container No : <b>S063216</b> Dart Hawkesbury</p> <p><a href="https://www.plexonline.com/dca9422a-f5b8-4a1b-954t">https://www.plexonline.com/dca9422a-f5b8-4a1b-954t</a></p> </div> <div style="width: 45%; text-align: center;"> <p>48 1 2</p> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                            | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>4/20/2018 [Dart Hawkesbury] Prod...</p> <p><b>D505-1049-013</b></p> <p>Operation : 90-Start up Operation</p> <p>Next Op : 160-Packaging</p> <p>Status : Allocated</p> <p>Change Number : 4/20/18 10:22 AM Jocelyne Joly</p> <p>Printed : Special</p> <p><a href="https://www.plexonline.com/dca9422a-f5b8-4a1b-954t">https://www.plexonline.com/dca9422a-f5b8-4a1b-954t</a></p> </div> <div style="width: 45%; text-align: right;"> <p>505 Bearpaws Active</p> <p>Quantity : 1</p> <p>Heat Code :</p> </div> </div>                                                                                                                                                                                                                                                                                                                       |                                             |                                 |                                   |                                    |                                       |                                        |                                      |                                       |                                    |                                            |                                          |                                             |                                           |                                              |                                  |                                    |                                              |                                     |                                              |                                           |                                                |                                        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
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| <b>Root Cause</b><br><table style="width:100%; border: none;"> <tr><td>Environment <input type="checkbox"/></td><td>No Re-verification <input type="checkbox"/></td></tr> <tr><td>Design <input type="checkbox"/></td><td>Operator <input type="checkbox"/></td></tr> <tr><td>Doc/Data <input type="checkbox"/></td><td>Offset/Setup <input type="checkbox"/></td></tr> <tr><td>Equip/Tooling <input type="checkbox"/></td><td>Supplier <input type="checkbox"/></td></tr> <tr><td>Handling/Pre <input type="checkbox"/></td><td>Training <input type="checkbox"/></td></tr> <tr><td>Material <input type="checkbox"/></td><td>Use for Testing <input type="checkbox"/></td></tr> <tr><td>Internal Transport <input type="checkbox"/></td><td>Poor Information <input type="checkbox"/></td></tr> <tr><td>Tribal Knowledge <input type="checkbox"/></td><td>Rushing <input type="checkbox"/></td></tr> <tr><td>LOA <input type="checkbox"/></td><td>Product Improvement <input type="checkbox"/></td></tr> <tr><td>Substation <input type="checkbox"/></td><td>Process Improvement <input type="checkbox"/></td></tr> <tr><td>Past Expiry Date <input type="checkbox"/></td><td>Manufacturing Process <input type="checkbox"/></td></tr> <tr><td>Misidentified <input type="checkbox"/></td><td>Past Due <input type="checkbox"/></td></tr> </table> |                                                                                                                                                                                                                                                                                            | Environment <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No Re-verification <input type="checkbox"/> | Design <input type="checkbox"/> | Operator <input type="checkbox"/> | Doc/Data <input type="checkbox"/>  | Offset/Setup <input type="checkbox"/> | Equip/Tooling <input type="checkbox"/> | Supplier <input type="checkbox"/>    | Handling/Pre <input type="checkbox"/> | Training <input type="checkbox"/>  | Material <input type="checkbox"/>          | Use for Testing <input type="checkbox"/> | Internal Transport <input type="checkbox"/> | Poor Information <input type="checkbox"/> | Tribal Knowledge <input type="checkbox"/>    | Rushing <input type="checkbox"/> | LOA <input type="checkbox"/>       | Product Improvement <input type="checkbox"/> | Substation <input type="checkbox"/> | Process Improvement <input type="checkbox"/> | Past Expiry Date <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> | Misidentified <input type="checkbox"/> | Past Due <input type="checkbox"/> | <table style="width:100%; border: none;"> <tr> <td style="width:33%; vertical-align: top;">           Crimp/Kink/Ripple/Wave <input type="checkbox"/><br/>           Cuffs <input type="checkbox"/><br/>           Crushing <input type="checkbox"/><br/>           Heat Treat <input type="checkbox"/><br/>           Wave/Twist in Tube <input type="checkbox"/><br/>           Marks/Chatter <input type="checkbox"/> </td> <td style="width:33%; vertical-align: top;">           Inspection Incomplete/Unqualified <input type="checkbox"/><br/>           Contamination <input type="checkbox"/><br/>           Countersink <input type="checkbox"/><br/>           Cut Too Short <input type="checkbox"/><br/>           Instructions Incomplete/Unclear <input type="checkbox"/><br/>           Drill Holes <input type="checkbox"/> </td> <td style="width:33%; vertical-align: top;">           Weld <input type="checkbox"/><br/>           Wrong Stock Pulled <input type="checkbox"/><br/>           Out of Sequence <input type="checkbox"/><br/>           Off-set <input type="checkbox"/><br/>           Mislabeled <input type="checkbox"/><br/>           Fit/Function <input type="checkbox"/><br/>           Misaligned/off center <input type="checkbox"/> </td> </tr> <tr> <td style="vertical-align: top;">           Positioned Wrong <input type="checkbox"/><br/>           Outside Dimensions <input type="checkbox"/><br/>           Over/Under tolerance <input type="checkbox"/><br/>           Part Incorrect <input type="checkbox"/><br/>           Part Lost/Missing <input type="checkbox"/><br/>           Part Moved <input type="checkbox"/><br/>           Drawing <input type="checkbox"/><br/>           Finish <input type="checkbox"/><br/>           Misread <input type="checkbox"/><br/>           Turning Sequence <input type="checkbox"/> </td> <td colspan="2"></td> </tr> </table> |  |  | Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Countersink <input type="checkbox"/><br>Cut Too Short <input type="checkbox"/><br>Instructions Incomplete/Unclear <input type="checkbox"/><br>Drill Holes <input type="checkbox"/> | Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set <input type="checkbox"/><br>Mislabeled <input type="checkbox"/><br>Fit/Function <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/> |  |  |
| Environment <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| MS21083N4     | 24 | 134   | 0 |
| NAS1149D0463J | 24 | 4,382 | 0 |
| NAS1801-4-30  | 24 | 68    | 0 |
| QS200-M40S    | 6  | 7     | 0 |

#### Part Specifications

Specifications could not be found.

Plex 3/14/18 2:42 PM Dart.lajeunesse.marie



DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |                                      | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Skid-tube <input type="checkbox"/></td> <td style="width: 15%;">Cross tube <input type="checkbox"/></td> <td style="width: 15%;">Water Jet <input type="checkbox"/></td> <td style="width: 15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                             |                                 |                                   |                                              |                                       | Skid-tube <input type="checkbox"/>     | Cross tube <input type="checkbox"/> | Water Jet <input type="checkbox"/>    | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/>       | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>          | Thermoforming <input type="checkbox"/>    | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>               | Large Fab <input type="checkbox"/>  | Composite <input type="checkbox"/>           | Supplier <input type="checkbox"/>         |                                                |                                        |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |                                          |                                           |                                           |                                  |                                 |                                        |                                                |                                    |                                |                                 |                                               |                               |                                                 |                                                            |                                             |                                |                                        |                                          |                                   |                                      |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Small Fab <input type="checkbox"/>                         | Prod. 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Coord. <input type="checkbox"/>                                                                                                                                         | Quality <input type="checkbox"/>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Large Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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border: none;"> <tr> <td style="width: 33%;">Pressure/Forced <input type="checkbox"/></td> <td style="width: 33%;">Temperature/Cure <input type="checkbox"/></td> <td style="width: 33%;">Power Loss/Surge <input type="checkbox"/></td> </tr> <tr> <td>Bending <input type="checkbox"/></td> <td>Set-up <input type="checkbox"/></td> <td>Folio/Program <input type="checkbox"/></td> </tr> <tr> <td>Centre Not Concentric <input type="checkbox"/></td> <td>BOM/Route <input type="checkbox"/></td> <td>Grain <input type="checkbox"/></td> </tr> <tr> <td>Cracks <input type="checkbox"/></td> <td>Broken/Damage/Defect <input type="checkbox"/></td> <td>Weld <input type="checkbox"/></td> </tr> <tr> <td>Crimp/Kink/Ripple/Wave <input type="checkbox"/></td> <td>Inspection Incomplete/Unqualified <input type="checkbox"/></td> <td>Wrong Stock Pulled <input type="checkbox"/></td> </tr> <tr> <td>Cuffs <input type="checkbox"/></td> <td>Contamination <input type="checkbox"/></td> <td>Out of Sequence <input type="checkbox"/></td> </tr> <tr> <td>Crushing <input type="checkbox"/></td> <td>Countersink <input type="checkbox"/></td> <td>Off-set <input type="checkbox"/></td> </tr> <tr> <td>Heat Treat <input type="checkbox"/></td> <td>Cut Too Short <input type="checkbox"/></td> <td>Mislabeled <input type="checkbox"/></td> </tr> <tr> <td>Wave/Twist in Tube <input type="checkbox"/></td> <td>Instructions Incomplete/Unclear <input type="checkbox"/></td> <td>Fit/Function <input type="checkbox"/></td> </tr> <tr> <td>Marks/Chatter <input type="checkbox"/></td> <td>Drill Holes <input type="checkbox"/></td> <td>Misaligned/off center <input type="checkbox"/></td> </tr> </table> |  |  |  |  |  | Pressure/Forced <input type="checkbox"/> | Temperature/Cure <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/> | Bending <input type="checkbox"/> | Set-up <input type="checkbox"/> | Folio/Program <input type="checkbox"/> | Centre Not Concentric <input type="checkbox"/> | BOM/Route <input type="checkbox"/> | Grain <input type="checkbox"/> | Cracks <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/> | Weld <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> | Cuffs <input type="checkbox"/> | Contamination <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | Crushing <input type="checkbox"/> | Countersink <input type="checkbox"/> | Off-set <input type="checkbox"/> | Heat Treat <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/> | Drill Holes <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> |
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| Material <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Internal Transport <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Tribal Knowledge <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Past Due <input type="checkbox"/>                          |                                                                                                                                                                                    |                                      |                                                                                                                                                                                                                                                                                                                                                                         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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Pressure/Forced <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Temperature/Cure <input type="checkbox"/>                  | Power Loss/Surge <input type="checkbox"/>                                                                                                                                          |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Bending <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Set-up <input type="checkbox"/>                            | Folio/Program <input type="checkbox"/>                                                                                                                                             |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Centre Not Concentric <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BOM/Route <input type="checkbox"/>                         | Grain <input type="checkbox"/>                                                                                                                                                     |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Cracks <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Broken/Damage/Defect <input type="checkbox"/>              | Weld <input type="checkbox"/>                                                                                                                                                      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Crimp/Kink/Ripple/Wave <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Inspection Incomplete/Unqualified <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/>                                                                                                                                        |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Cuffs <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Contamination <input type="checkbox"/>                     | Out of Sequence <input type="checkbox"/>                                                                                                                                           |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Crushing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Countersink <input type="checkbox"/>                       | Off-set <input type="checkbox"/>                                                                                                                                                   |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Heat Treat <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cut Too Short <input type="checkbox"/>                     | Mislabeled <input type="checkbox"/>                                                                                                                                                |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Wave/Twist in Tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Instructions Incomplete/Unclear <input type="checkbox"/>   | Fit/Function <input type="checkbox"/>                                                                                                                                              |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |                                 |                                   |                                              |                                       |                                        |                                     |                                       |                                      |                                    |                                          |              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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |
| Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Drill Holes <input type="checkbox"/>                       | Misaligned/off center <input type="checkbox"/>                                                                                                                                     |                                      |                                                                                                                                                                                                                                                                                                                                                                         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| OTHER :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                       |                                  |                                     |                                        |                                     |                                             |                                                          |                                       |                                        |                                      |                                                |

## Change Record

PAGE 1 OF 1

Part Number: D505-1049-013

**Description:** BEARPAW INSTALLATION w/WEARPLATES

[illegible]

REFERENCE ONLY

**4 WEIGHT AND BALANCE**

| Installation                                | Weight  | LATERAL |           | LONGITUDINAL |            |
|---------------------------------------------|---------|---------|-----------|--------------|------------|
|                                             |         | Arm     | Moment    | Arm          | Moment     |
| <b>D505-1049-011</b>                        | 11.1 lb | 0.0 in  | 0.0 in-lb | 191.6 in     | 2127 in-lb |
| <i>Bearpaw Installation</i>                 | 5.03 kg | 0.0 m   | 0.0 m-kg  | 4.87 m       | 24.5 m-kg  |
| <b>D505-1049-013</b>                        | 14.5 lb | 0.0 in  | 0.0 in-lb | 191.4 in     | 2775 in-lb |
| <i>Bearpaw Installation with Wearplates</i> | 6.58 kg | 0.0 m   | 0.0 m-kg  | 4.86 m       | 32.0 m-kg  |
| <b>D505-1049-041</b>                        | 3.4 lb  | 0.0 in  | 0.0 in-lb | 190.8 in     | 649 in-lb  |
| <i>Wearplate Kit</i>                        | 1.54 kg | 0.0 m   | 0.0 m-kg  | 4.85 m       | 7.5 m-kg   |

**5 PARTS LIST**

| Qty<br>-011 | Qty<br>-013 | Qty<br>-041 | Part Number   | Description                          |
|-------------|-------------|-------------|---------------|--------------------------------------|
| X           |             |             | D505-1049-011 | BEARPAW INSTALLATION                 |
|             | X           |             | D505-1049-013 | BEARPAW INSTALLATION WITH WEARPLATES |
|             |             | X           | D505-1049-041 | WEARPLATE KIT                        |
| 8           | 8           |             | D2274         | Radius Block                         |
| 16          | 16          | 8           | D2529         | Washer                               |
| 4           | 4           |             | D5566-1       | Clamp                                |
| 4           | 4           |             | D5567-1       | Cushion                              |
|             | 2           | 2           | D5559-041     | Wearplate                            |
| 2           | 2           |             | D5560-1       | Bearpaw                              |
|             | 8           | 8           | AN4-7A        | Bolt                                 |
| 8           | 8           |             | NAS1801-4-30  | Bolt                                 |
| 8           | 8           |             | NAS1149D0463J | Washer                               |
| 8           | 16          | 8           | MS21042L4     | Nut (or MS21042-4)                   |
| 8           | 8           |             | MS21083N4     | Nut                                  |
| 2           | 2           |             | QS200-M40S    | Hose Clamp                           |

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Revision: **B**  
Date: 18.02.01